Title (en)

FAULT DETECTION METHOD AND FAULT DETECTION APPARATUS FOR PHOTOVOLTAIC ASSEMBLY

Title (de)

FEHLERERKENNUNGSVERFAHREN UND FEHLERERKENNUNGSVORRICHTUNG FÜR EINE PHOTOVOLTAISCHE ANORDNUNG

Title (fr)

PROCÉDÉ DE DÉTECTION DE DÉFAUT ET APPAREIL DE DÉTECTION DE DÉFAUT POUR ENSEMBLE PHOTOVOLTAÏQUE

Publication

EP 3840218 A4 20220209 (EN)

Application

EP 20861944 A 20200604

Priority

- CN 201910919753 A 20190926
- CN 2020094424 W 20200604

Abstract (en)

[origin: EP3840218A1] Embodiments of this application provide a fault detection method and a fault detection apparatus for a photovoltaic module. The fault detection apparatus includes an image capture module and a detection module. The fault detection method includes: capturing an image of the photovoltaic module in a light emitting state; and performing fault detection on the photovoltaic module based on the image when a signal-to-noise ratio of the image is maximized, to identify a fault type of the photovoltaic module. This application can ensure quality of a captured light emitting image of the photovoltaic module, thereby reducing subsequent fault identification difficulty and an image processing workload.

IPC 8 full level

H02S 50/10 (2014.01); **G01N 21/88** (2006.01); **H02S 50/15** (2014.01)

CPC (source: CN EP US)

H02H 1/0007 (2013.01 - US); **H02H 7/20** (2013.01 - US); **H02S 50/10** (2014.12 - CN EP); **H02S 50/15** (2014.12 - CN EP US); Y02E 10/50 (2013.01 - EP)

Citation (search report)

- [XI] WO 2019144317 A1 20190801 - HONEYWELL INT INC [US], et al
- See references of WO 2021057083A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3840218 A1 20210623; **EP 3840218 A4 20220209**; **EP 3840218 B1 20231004**; CN 110752825 A 20200204; US 12009783 B2 20240611; US 2021408968 A1 20211230; WO 2021057083 A1 20210401

DOCDB simple family (application)

EP 20861944 A 20200604; CN 201910919753 A 20190926; CN 2020094424 W 20200604; US 202117473534 A 20210913